

## COMMENT.

It is unfortunate that the author has not presented monthly or at least annual results in detail. It appears probable that the relation of precipitation to run-off and water losses could have been better established for this drainage basin from an analysis of the results for individual stations, by the method of group means, than by a comparison of the pentad means for different stations. The latter may include in a single mean the results for years of excessive and years of deficient precipitation. It is pretty well established that the relation of precipitation to run-off is not linear as most European investigators following Penck have assumed it to be. The method of determining the relation of precipitation to run-off by

comparing average results for areas representing different subdivisions of a larger drainage basin, as used by the author, is novel. Perhaps this method has not hitherto been used, because it is not generally applicable. The fact that it does apply reasonably well to the Oder drainage basin is undoubtedly due to the marked similarity of meteorologic conditions, especially as regards distribution of rainfall over the different subdivisions of the Oder drainage basin. However, there must be an appreciable difference in topographic and agricultural conditions affecting run-off in the different subdivisions of the area which is not taken into account by the author.

The author's use of hydrologic winter and summer seasons beginning with November and May, respectively, is to be commended.—*R. E. Horton.*

## BIBLIOGRAPHY.

## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**Anfossi, Giovanni.**

Ciò che sappiamo intorno alle precipitazioni nell'alto Appennino Ligure-Emiliano. Reggio-Emilia. 1914. 14 p. fold. chart. tables. 26½ cm. (Estratto dalla "Rivista tecnica" del Collegio degli ingegneri Provincia di Reggio Emilia, no. 3. 1914.)

**Bavaria. K. Meteorologische Centralstation.**

Münchener aerologische Studien, von A. Schmauss. No. 7. Die Jahresperiode von T<sub>0</sub> und H<sub>0</sub> über München. München. 1914. G1-G4 p. charts. 2 tables. 32½ cm. (Sonderabdruck aus den "Beobachtungen der meteorologischen Stationen in Königreich Bayern." Band 36. Jahrg. 1914.)

**Bénévent, Ernest.**

La neige dans les Alpes françaises. Grenoble. 1918. 95 p. 8 charts. 12 tables. 25½ cm. (Extrait des Annales de l'Université de Grenoble. Tome 29, no. 3, 1917.)

**Dorno, [Carl Wilhelm Max].**

Physik der Sonnen- und Himmelsstrahlung. Braunschweig. 1919. vii [2] 126 p. charts (part. fold.) tables. 22½ cm. Added t.p. with heading: Die Wissenschaft. Band 63.

**Eredia, Filippo.**

La pressione barometrica a Tripoli. Roma. 1919. 6 p. tables. 23½ cm. (Estratto dal Bollettino della Reale società geografica italiana. Fasc. 3-4, 1919, p. 216-219.)

Sul soleggiamento a Mogadiscio. Roma. 1918. 11 p. incl. tables. 24 cm. At head of title: Ministero delle colonie. (Estratto dal Bollettino d'informazioni. Anno 5, N. 2-12, 1918.) L'umidità dell'aria in Sicilia. 7 p. tables. 24 cm. (Dal Bollettino dell'Accademia Gioenia di scienze naturali in Catania. Fasc. 46, 1919.)

**Indo-China. Service météorologique.**

Bulletin pluviométrique . . . Année 1918. Phu-Lien. 1919. n.p. fold. chart. incl. tables. 39½ cm. At head of title: Gouvernement général de l'Indochine. Observatoire central de l'Indochine.

**Maurer, [Maximilian] Julius.**

Unsere alten Zürcher Witterungsregister. 3 illus. 27 cm. (Excerpted from Vierteljahrsschrift der Naturforschenden Gesellschaft, Zürich. 62 Jahrg. 1917. Heft 1-2. p. [470]-478.)

**Montana. Dept. of agriculture and publicity.**

Montana precipitation charts. Showing the precipitation in the growing months of April, May, June, July, and August, for a series of years in different sections of the state, up to and including 1919. Data furnished by the U. S. Weather bureau, Department of agriculture. Helena, Mont. 1919. [16] p. map. charts. 23½ x 31 cm.

**Nordenskjöld, Otto.**

Einige Züge der physischen Geographie und der Entwicklungsgeschichte Süd-Grönlands. Leipzig. 1914. 2 fold. plates. 2 maps. 24½ cm. (Sonderabdruck aus der Geographischen Zeitschrift. Band 20. Heft 8-11. p. 425-441; 505-524; 628-641.) [Climate, p. 509-514.]

**Ota, G.**

Principles of meteorology. Tokyo. 1919. 3 p. l., 12 p. 5 fold. diagrs. 19 cm.

**Smyth, Henry Field.**

A critical review of methods for the study of dust content of air. 10 p. 27½ cm. (Reprinted from the Journal of industrial hygiene. July, 1919. Vol. 1, no. 3. p. 140-149.) Bibliography, p. 9-10.

Suggested modifications of the standard method for the study of the dust content of air. table. 25½ cm. (Reprinted from American journal of public health, Vol. 9, no. 10. Oct. 1918. p. 769-771.)

**Southport. Fernley observatory.**

Annual report, and results of meteorological observations for the year 1918; with an appendix, containing hourly wind direction and velocity averages, for 20 years; by Joseph Baxendell. Southport, London. 1919. 32 p. front. (fold. chart.) tables. 25 cm. At head of title: Meteorological office, London. Southport auxiliary observatory. . .

**Stevens, Neil E[verett].**

Temperature in relation to quality of sweetcorn, by Neil E. Stevens and C. H. Higgins. Washington. 1919. cover-title. 275-284 p. chart. 5 tables. 26 cm. (Reprinted from Journal of agricultural research. Vol. 17, no. 6.) Literature, p. 283-284.

**U. S. National advisory committee for aeronautics.**

Effect of compression ratio, pressure, temperature, and humidity on power. Washington. 1919. 32 p. charts. tables. 29½ cm. Report no. 45. Preprint from 4th Annual report.

**Wedderburn [Ernest MacLagan].**

The application of meteorology to gunnery. Shoeburyness, Eng. 1919. 22 p. tables. 33½ cm.

## RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

American society of heating and ventilating engineers. Journal. New York. v. 25. January, 1919.

Hayhurst, Emery R. Experiments in air conditioning the home. p. 1-14.

Knowles, E. R. Dust determinations in air and gases. p. 67-98.

West, Perry. Air washing and humidification for school buildings. p. 99-109.